SYNTHETIC APERTURE RADAR IMAGING FROM TRUNCATED DATA (MonPmOR10)

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**Abstract:**
In this paper a new approach to synthetic aperture radar (SAR) data processing is presented. The method properly takes into account the spatial truncation of the data in the azimuth direction, due to the finite recording frame. It allows an enlargement of the well focused area, assuring lower reconstruction error, respect to conventional processing techniques. The good performance of the method is demonstrated through reconstructions from simulated data, putting emphasis on the well focused signals.